ANNEX D RADIOLOGICAL PROTECTION

Revision Two

Brazoria County
And
Joint Resolution Cities

APPROVAL & IMPLEMENTATION

Annex D

Radiological Protection

Revision Two

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8/4/2017

Date

RECORD OF CHANGES

Annex D

Radiological Protection Revision Two

| Date of Change | Entered By | |
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ANNEX D

RADIOLOGICAL PROTECTION

I. AUTHORITY

- A. Refer to Section I of the basic plan for general authorities.
- **B.** OSHA Regulation 29 CFR 1910.120, *Hazardous Waste Operations and Emergency Response.*
- **C.** Annex D, Radiological Emergency Management, to the State of Texas Emergency Management Plan.

II. PURPOSE

The purpose of this annex is to define organizational concepts and procedures, establish the local organization, and to assign responsibilities for an effective operational radiological protection program (RPP) for preparation and response in the event of a radiological emergency affecting this jurisdiction. This will allow our jurisdiction to provide a coordinated response to emergencies involving radioactive materials and for determination and implementation of local measures to protect life, property, and the environment during the course of the event.

III. EXPLANATION OF TERMS

| DOE | (US) Department of Energy |
|-------|---|
| DHS | Department of Homeland Security |
| DPS | Department of Public Safety |
| DSHS | Department of State Health Services |
| EOC | Emergency Operations Center |
| EMC | Emergency Management Coordinator |
| FEMA | Federal Emergency Management Agency |
| OSHA | Occupational Safety and Health Administration |
| IC | Incident Commander |
| ICP | Incident Command Post |
| ICS | Incident Command System |
| MACC | Multi Agency Coordination Center |
| NIMS | National Incident Management System |
| NRC | Nuclear Regulatory Commission |
| RCP | Radiation Control Program |
| RPP | Radiation Protection Program |
| SMRAP | Southern Mutual Radiation Assistance Plan |
| SOP | Standard Operating Procedures |
| TLETS | Texas Law Enforcement Telecommunications System |

IV. SITUATION & ASSUMPTIONS

A. Situation

1. General.

- a. See the general situation statement and hazard summary in Section IV.A of the basic plan.
- b. Radiological materials are hazardous materials that receive special coverage in state and federal laws and regulations covering such materials. However, radiological materials are also subject to a number of specific state and federal laws and regulations that control the handling and use of such materials, and plans that establish unique state and federal procedures for handling incidents involving them. In addition, the state and federal agencies that provide advice and assistance to local governments during radiological incidents differ from those that provide advice and assistance during most other hazardous materials incidents
- c. Except for radiological incidents involving federal facilities or federally owned nuclear materials, the State or local government has the responsibility for taking required emergency response actions. Response from Brazoria County will be in compliance with the National Incident Management System (NIMS) operating principles and protocols, and will constitute general guidance for all responders to the radiological incident. Support may be requested from federal agencies pursuant to the National Response Plan (NRP). The department of Homeland Security (DHS) has overall responsibility of all actual and potential Incident of National Significance had accidents or incidents involving nuclear or radioactive materials that may or may not rise to the level on an Incident of National Significance. Various federal coordinating agencies will lead the response to incidents of lesser severity by coordinating federal radiological monitoring assistance to state and local governments.
- d. The Department of State Health Services, Radiation Control Program (DSHS/RCP), as the state radiation control agency, has primary responsibility for the state radiological protection program. DSHS/RCP also provides statewide training.
- e. The federal agency responsible to accidents at nuclear facilities licensed by the State of Texas or incidents involving shipments of radioactive materials licensed by the State is the Nuclear Regulatory Commission (NRC). The US Department of Energy (DOE) and Department of Defense have the lead federal role in incidents at their facilities or accidents involving their shipments. Each of these federal agencies in addition to the United States Coast Guard (USCG), the Environmental Protection Agency (EPA), and the National Aeronautics and Space Administration (NASA) may serve as a coordinating agency for DHS.

f. Additional external resources may be available and requested by the State of Texas in accordance with the Southern Mutual Radiation Assistance Plan (SMRAP).

2. Radiological Hazards.

Brazoria County is susceptible to accidents involving radioactive materials at some facilities and in transit. Hospitals, medical facilities and some plants use a wide range of radioactive sources in nuclear medicine as well as in research and development programs. Radioactive sources are used to x-ray pipe welds, in well logging, and for many other common industrial and business uses. These sources can be extremely hazardous (life threatening) when removed from their containers, either intentionally or by accident. A variety of radioactive materials are transported on our highways and rail systems, sometimes in unmarked vehicles. Additionally, radioactive materials may be present on aircraft and ships.

B. Assumptions

- 1. We may experience radiological emergency situations which may threaten public health and safety and private or public property and/or the environment, which will necessitate the implementation of protective actions for the public at risk.
- 2. A nuclear attack against the United States is considered highly unlikely. The deliberate release of radioactive materials by criminals or terrorists in the local area is possible, but considered unlikely.
- 3. Proper development and execution of a RPP can significantly reduce the number of casualties that could result from a radiological accident. In most cases, isolation of the radioactive threat and evacuation of all personnel from a threatened area will be the fundamentals of a proactive RPP.
- 4. Brazoria County must be prepared to carry out the initial emergency response on an independent basis. If local resources alone are inadequate to cope with a radiological incident we will request state assistance through our Disaster District. The DSHS/RCP, as the state radiation control agency, will provide advice and assistance to local personnel in responding to an incident involving an actual or suspected radiological release.
- 5. Local emergency operations, including the use of mutual aid resources, will be directed by local officials, except in those situations where state or federal law requires that a state or federal agency exercise lead responsibility or where local responders lack the necessary expertise and/or equipment to cope with the incident and agree to permit those with the expertise to take charge.
- The State may request supplemental emergency assistance from other states or from the federal government when local and state resources are insufficient to deal with the emergency.

V. CONCEPT OF OPERATIONS

A. General

- 1. A basic local radiation protection program (RPP) consists of the MACC and an incident response capability that depends on support from State and Federal agencies with appropriate radiation detection and communication equipment.
- 2. To conduct an effective RPP, the County will:
 - a. Establish procedures for initial emergency response to radiological accidents. See the Radiological Incident Response Checklist in Appendix 2.
 - b. Establish a radiological incident reporting system. See Appendix 3.
 - c. Isolate the radiological threat and evacuate personnel at risk of exposure until a trained response can be brought to the incident.

B. Radiological Accidents

- 1. Discovery. Radiological accidents may be discovered by the public, by businesses that use or transport such materials, or by local responders who are summoned to an accident site. Local personnel are likely to be first emergency responders on the scene of a radiological accident. The first local emergence responder at the scene will take charge, initiating the incident command system (ICS), and serve as the Incident Commander until relieved by a more senior or more qualified individual.
- 2. Local Notification. The Incident Commander will provide information on the incident to local officials through Sheriff's Office Dispatch using the Hazardous Materials Incident Report provided in Tab A to Appendix 3. The Incident Commander shall make an initial assessment of the situation, to include an estimate of the likelihood of a release of radiological materials. If it appears that radiological materials have been released into the environment or such a release appears likely, the MACC will be activated to support the incident response.
- 3. Response Actions. The Incident Commander should identify response resources required and direct the on-scene response to contain or prevent spread of contamination at the incident site. The initial response should be accomplished in accordance with established hazardous materials response criteria and the general checklist in Appendix 2.
- 4. Protective Actions.
 - a. Short Term.
 - If it appears that a release of radiological materials has occurred or is possible, the Incident Commander is responsible for determining and implementing appropriate protective actions for the public in the immediate area of the incident. The Incident Commander is also responsible for advising personnel

responding to the incident of potential hazards and determining requirements for personal protective equipment (PPE). Responders who lack appropriate hazardous materials training and appropriate PPE should not be committed to radiological incidents. This includes most local first responders.

- 2) If it appears that a radiological release has or may affect areas beyond the incident site, the incident commander should coordinate with the MACC to agree upon a division of responsibilities for warning the public, making required notifications, implementing protective actions for the public in areas beyond the incident site, and obtaining additional resources and technical assistance.
- 3) Initial public protective actions for a radiological incident include evacuation and/or sheltering in place. Appendix 4 to Annex Q, Hazardous Materials & Oil Spill Response provides additional information on selecting public protective measures.
- b. Long-term Protective Measures. DSHS/RCP will normally conduct a detailed incident assessment, identify affected areas through radiological monitoring, recommend follow-on protective measures to protect public health, and oversee recovery operations. Long-term protective measures may be implemented by DSHS or other state regulatory agencies and may include controls on the movement and use of livestock, foodstuffs, milk, and feed from contaminated areas and on the use of drinking or irrigation water from contaminated sources.
- 5. State and Federal Notifications. Sheriff's Office Dispatch or the MACC, if activated, shall be responsible for making required emergency notifications to state and federal agencies. Radiological releases should be reported to:
 - a. The Disaster District Committee (DDC) which will relay information to the Texas Division of Emergency Management.
 - b. The DSHS/RCP at 512-458-7460 (24-hour)
 - c. The State Environmental Hotline at 1-800-832-8224
 - d. The National Response Center at 1-800-424-8802
 - e. The FBI office in Texas City at (409) 935-7327, if incident involves a deliberate release of radiological materials,.

See Appendix 3, Texas Radiological Incident Reporting System, and Tab A to Appendix 3, Hazardous Materials Incident Report, for additional information.

- 6. State & Federal Assistance. The MACC is responsible for coordinating with the DSHS/RCP to obtain technical advice and assistance regarding radiological issues. The DSHS/RCP staff in Austin has the capability to provide advice by telephone to the MACC or directly to the Incident Commander until DSHS/RCP personnel arrive on the scene. The DSHS/RCP may formulate requests for the Governor for radiological monitoring and assessment assistance from the federal government or from other states, if required. The County Judge may request other types of state assistance through the Disaster District Committee Chairperson.
- 7. Situation Updates. The Incident Commander shall provide situation updates to the MACC; the MACC should prepare and transmit situation reports to the Disaster District. See Appendix N for guidance on situation reporting.

- 8. Monitoring of Emergency Workers. Exposure records and medical follow-up will be provided for responders who entered contaminated areas.
- 9. US Government Nuclear Materials. In the event of a radiological accident involving nuclear weapons, special nuclear material (SNM), or classified components, the federal agency which owns that material may declare a National Defense Area (NDA) or National Security Area (NSA) around the site and take exclusive control within that area. NDAs and NSAs are established to safeguard classified information or restricted data, equipment, or material.
- 10. US Department of Energy (DOE) Shipments. US DOE has jurisdiction on accidents involving DOE transuranic waste shipments. Information on these shipments and guidance on dealing with incidents involving such shipments is provided in Appendix 5.

C. Deliberate Acts

The deliberate release of radioactive materials is a crime under a number of state and federal laws. Any incident of this type must be promptly reported to local and state law enforcement agencies. The Federal Bureau of Investigation (FBI) has lead responsibility for criminal investigations of terrorist acts or terrorist threats involving weapons of mass destruction (WMD), including improvised radiological dispersion devices; the Department of Public Safety (DPS) is the lead state agency. The DHS is responsible for overall coordination of all actual and potential Incidents of National Significance and accidents or incidents involving radiological materials that may or may not rise to the level of an Incident of National Significance; TDEM is the lead state agency. If a release of radiation is believed to be an act of terrorism, we will ensure the incident is reported to both to the Texas Department of Public Safety (DPS) and the FBI. More information on dealing with terrorist events is provided in Annex V, Terrorist Incident Response.

D. Activities by Phases of Emergency Management

- 1. Prevention
 - a. Maintain an effective public warning system.
- 2. Preparedness
 - a. Establish a RPP system.
 - b. Ensure responders have data available on local facilities that are licensed to use or store, or transport radiological materials. This information may be obtained from the DSHS/RCP

3. Response

- a. Activate the RPP system
- b. Respond in accordance with the guidelines in Appendix 2.

c. Relay information and instructions to the public.

4. Recovery

- a. Ensure radiation source material is removed and ensure access to contaminated areas is controlled until they are cleaned up. Cleanup will normally be performed by a contractor supervised by state or federal agencies and paid for by the responsible party, if one can be located.
- b. Work with state and federal agencies to assess damage, if any.
- c. Work with the DSHS/RCP to continue area radiation monitoring, if required.
- d. Work with the DSHS/RCP to determine the cause of the incident and determine liability.
- e. Keep the public informed about the status of the incident.

VI. ORGANIZATION & ASSIGNMENT OF RESPONSIBILITIES

A. Organization

- 1. The EMC is in charge of the Radiological Protection Program. When a radiological accident occurs, responsibility for managing and directing the response is assigned to the Incident Commander and responsibility for coordinating external support is assigned to the MACC staff.
- 2. Effective response to a radiological incident requires a coordinated response by local agencies, and officials, together with representatives of the facility or company responsible for the incident, and depends on state and federal agencies with responsibilities for radiological incidents. Technical assistance for a radiological incident may be provided by the facility, by state and federal agencies, or by industry. See paragraph V.B.6, this annex for more information on state and federal assistance.

B. Assignment of Responsibilities

- 1. The Incident Commander will:
 - a. Manage emergency response resources and operations at the incident site to control the incident.
 - b. Determine and implement protective actions for emergency responders and the public in the vicinity of the incident site.
- 2. Fire Service(s) will:
 - a. Assist in evacuation, if necessary.

3. The EMC will:

a. Schedule and conduct an annual review of this annex and coordinate update of the annex, if needed.

4. Law Enforcement will:

- a. Restrict access to incident sites and contaminated areas to protect public health and safety.
- b. Organize and conduct evacuations and provide traffic control as needed, if necessary.
- c. Assist in warning the public, as necessary.
- d. If the release of radiation appears deliberate, control the scene, apprehend suspects, conduct an investigation, and if, the incident appears to be terrorism-related, ensure DPS and the FBI are advised.

5. EMS will:

- a. Provide medical care and transportation for casualties.
- b. Alert hospitals of the potential for contaminated victims.

6. Hospital(s) will:

- a. Provide medical care for casualties as needed.
- b. Be prepared to decontaminate contaminated patients.
- 7. Other Departments & Agencies (including DSHS/RCP) will:
 - a. Provide personnel, equipment, and supplies requested to support emergency operations.
 - b. Provide technical assistance to the Incident Commander and the MACC upon request.
 - c. In accordance with established procedures, provide personnel to staff the Incident Command Post or MACC when activated.

VII. DIRECTION & CONTROL

- A. Guidance. The County Judge will provide general guidance for emergency operations.
- B. Program Management. The EMC will manage the Radiological Protection Program.

- C. Operational Direction. During radiological incidents, the Incident Commander (IC) will manage radiological response operations at the incident site. The Incident Commander (IC) and the MACC shall agree upon a division of responsibilities for specific tasks. Typically, the MACC will conduct support operations, including activating additional resources and requesting external resources, making required notifications and reports, coordinating large scale evacuations and area traffic control, disseminating emergency public information, and other tasks to sustain emergency operations.
- **D.** Communications. Telephone, radio, teletype, e-mail, and/or facsimile will be used to transmit reports of radiological incidents, obtain technical assistance, exchange information, and provide direction and control.

VIII. READINESS LEVELS

Most radiological incidents typically occur without warning. Hence, developing a systematic set of increased readiness actions is difficult.

A. Level IV - Normal Conditions.

See the prevention and preparedness activities in Section V.D, Emergency Management Activities by Phase.

- B. Level III Increased Readiness. Increased Readiness may be appropriate if there is a greater than normal threat of a radiological incident. Initiating conditions may include a radioactive source missing in our region or notification that a significant radioactive shipment will be transiting our area, or a significant change in the Homeland Security Threat Level due to a radiological threat. Level 3 readiness actions may include:
 - 1. Monitoring the situation.
 - 2. Informing first responders and DSHS/RCP of the situation.
- C. Level II High Readiness. High Readiness may be appropriate if there is an increased risk of a radiological incident. Initiating conditions may include a radioactive source is missing in our jurisdiction, or notification of a significant change in the Homeland Security Threat Level due to a specific radiological threat. Level 2 readiness actions may include:
 - 1. Monitoring the situation.
 - 2. Alerting personnel for possible emergency duty and deploying personnel to assist with evacuation potential threatened areas.
 - 3. Issuing public warning and providing public information if necessary.
- D. Level I Maximum Readiness. Maximum readiness is appropriate when there is a significant possibility of a radiological release. Initiating conditions might include a lost radioactive source being located in the local area, activation of radiological alarms at a landfill screening point, or an incident at a facility licensed to use radiological materials, or notification of a significant change in the Homeland Security Threat Level due to a specific

radiological threat addressing this jurisdiction or facilities possessing radioactive materials. Level 1 readiness actions may include:

- 1. Investigating the situation and partially or fully activating the MACC to monitor it.
- 2. Placing first responders in alert status; placing off-duty personnel on standby.
- 3. Advising appropriate state and federal agencies.
- 4. Preparing to issue and issuing public warning if it becomes necessary.

IX. ADMINISTRATION & SUPPORT

A. Agreements & Contracts

Should our local resources prove to be inadequate during an emergency, requests will be made for assistance from mutual aid agreements, state and/or federal agencies, and industry in accordance with existing mutual-aid agreements and contracts.

B. Reports & Records

- 1. Situation Reports. If there has been an actual release of radioactive materials, the MACC should prepare and disseminate a periodic situation report to state and federal agencies, through the DDC, until the situation is resolved. It may be desirable to also disseminate this report to nearby jurisdictions and to those cities or counties that are providing mutual aid resources. See Annex N, Direction and Control, for the format of and instructions for this report.
- 2. Activity Logs. The Incident Command Post (ICP) and the MACC shall maintain accurate logs recording key response activities; activities to be logged are outlined in Section IX of our basic plan.
- 3. Response & Recovery Expenses. As it may be possible to recover some expenses incurred in responding to a release of radiological materials from the responsible party, insurers, or the federal government, each department or agency shall maintain detailed records of labor costs, equipment usage, and supplies expended to respond to or recover from an actual radiological release. The MACC will coordinate with the County Auditor's Office
- 4. Post-Incident Review. A post-incident critique shall be conducted in the aftermath of any incident that resulted in an actual release of radiological materials.

C. Maintenance of Radiological Equipment

1. Brazoria County neither owns nor maintains usable radiation detecting equipment.

D. Training

Federal law requires that individuals who respond to hazardous materials incidents, including radiological incidents, should be adequately trained and equipped for the tasks they will perform. Training is available through a combination of federal, state, and local sources; see Appendix 4.

X. PLAN DEVELOPMENT & MAINTENANCE

- A. Development. The EMC is responsible for developing and maintaining this annex.
- **B. Maintenance.** This annex will be reviewed annually and updated in accordance with the schedule outlined in Section X of the basic plan.

XI. REFERENCES

US Department of Transportation and Transport Canada, Emergency Response Guidebook.

FEMA, Guide for All-Hazard Emergency Operations Planning, SLG-101.

FEMA, Guidance for Developing State, Tribal, and Local Radiological Emergency Response Planning and Preparedness for Transportation Accidents, FEMA-REP-5.

APPENDICES:

| Appendix 1 | Radiological Instrument Inventory |
|------------|--|
| | Radiological Incident Response Checklist |
| | Texas Radiological Incident Reporting System |
| | Hazardous Materials Incident Report |
| Appendix 4 | Radiological Response Training |

RADIOLOGICAL INSTRUMENT INVENTORY

| Type of Instrument | Number in Stock | Location (Office, Vehicle) | City | Owner (Local/State) |
|---|--------------------|-------------------------------|----------|------------------------|
| CD V-777-1 Radiation Detection Kits (not functional) | 14 | Courthouse Basement | Angleton | Brazoria County |
| Radalert50 Nuclear Radiation Monitor (not functional) | 2 | MACC Vault | Angleton | Brazoria County |
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RADIOLOGICAL INCIDENT RESPONSE CHECKLIST

| Action Item | Assigned |
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| | |
| If the situation requires it, isolate the site and deny access. | |
| Use emergency vehicles, barricades, barrier tape, etc. | |
| Classify incident, provide basic situation information to dispatch, and identify response resources required. See Incident Classification page 3, this appendix. I avail 4 Incident | |
| Level 1 – Incident | |
| Level II – Emergency Level III – Disaster | |
| 3. Record situation on a Hazardous Materials Incident Report (see Appendix 3, Tab A) and provide to Sheriff's Office Dispatch. | |
| Sheriff's Dispatch will relay situation information to emergency responders, who should dispatch forces in accordance with their established procedures. | |
| Determine extent of danger to responders and establish requirements for safe zones and areas to avoid. | |
| 6. Ascertain extent of danger to general public; determine specific areas and special facilities (schools, hospitals, nursing homes, prisons, and other institutions), if any, at risk. | |
| 7. Develop initial action plan to contain and control the release of radiological material. | |
| 8. Determine appropriate protective actions for the public and vulnerable facilities; see Annex Q, Appendix 5. If evacuation is contemplated, see the General Evacuation Checklist in Annex E, Evacuation. | |
| Initiate warning and issue protective action recommendations for the general public. See Annex A, Warning, and Annex I, Emergency Public Information. | |
| 10. Warn vulnerable facilities, provide protective action recommendations and instructions, and determine requirements for assistance. Provide assistance when requested. | |
| 11. If evacuation will be conducted, provide traffic control and be prepared to provide transportation to those who lack it. | |
| 12. Warn other communities that may be threatened by the radiological release. | |
| 13. If possibility exists of casualties that are contaminated with radiological material, ensure EMS units and hospitals are so advised. | |
| 14. If evacuation is recommended, staff and open temporary shelters for evacuees. See Annex C, Shelter and Mass Care. | |

| Action Item | Assigned |
|--|----------|
| 15. Notifications: See Tab A to Appendix 3 for notification procedures and | |
| telephone numbers. The DSHS/RCP must be contacted for radiological | |
| accidents. They will provide assistance as needed. See paragraph V.B.6, | |
| this annex. | |
| Advise the responsible party to report release to state and federal | |
| authorities as required by state and federal statutes and regulations. | |
| If the County or a City is responsible for the release, it must make | |
| required notifications to state and federal agencies. | |
| If the responsible part cannot be identified/located, the County or | |
| appropriate City should make required notifications, making it clear that | |
| the responsible party is presently unknown. | |
| 16. If water or wastewater systems are threatened by radioactive contamination, | |
| advise system operators so they may implement preventative measures. | |
| 17. If on-scene technical assistance is required, request assistance from | |
| industry or appropriate state or federal agencies. | |
| 18. If additional response resources are required, request them. | |
| Invoke mutual aid agreements. | |
| Summon hazmat response contractor, if one is under contract. | |
| Request assistance from the State through the Disaster District. | |
| 19. Provide updated information on the incident to the public through media | |
| releases. | |
| 20. Continuously document actions taken, resources committed, and expenses | • |
| incurred. | |
| 21. Retain message files, logs, and incident-related documents for use in | |
| incident investigation and legal proceedings and to support claims for | |
| possible reimbursement from the responsible party or state and federal | |
| agencies. | |
| 22. Assess contamination and determine which areas are safe to re-enter. | |
| Determine and implement remediation measures for other areas. | |
| 23. As evacuated areas are determined to be safe to reenter, advise evacuees | |
| and special facilities they may return, providing traffic control as needed. | |
| 24. Curtail shelter and mass care operations as evacuees depart. | |
| 25. If some areas will require long term cleanup before they are habitable, | |
| develop and implement procedures to mark and control access to such | |
| areas. NOTE: Clean-up is the responsibility of the responsible party. | |
| 26. Assist evacuees who cannot return to their homes in finding temporary | |
| housing and obtaining social services. | |
| 27. Conduct post-incident review of response operations. | |

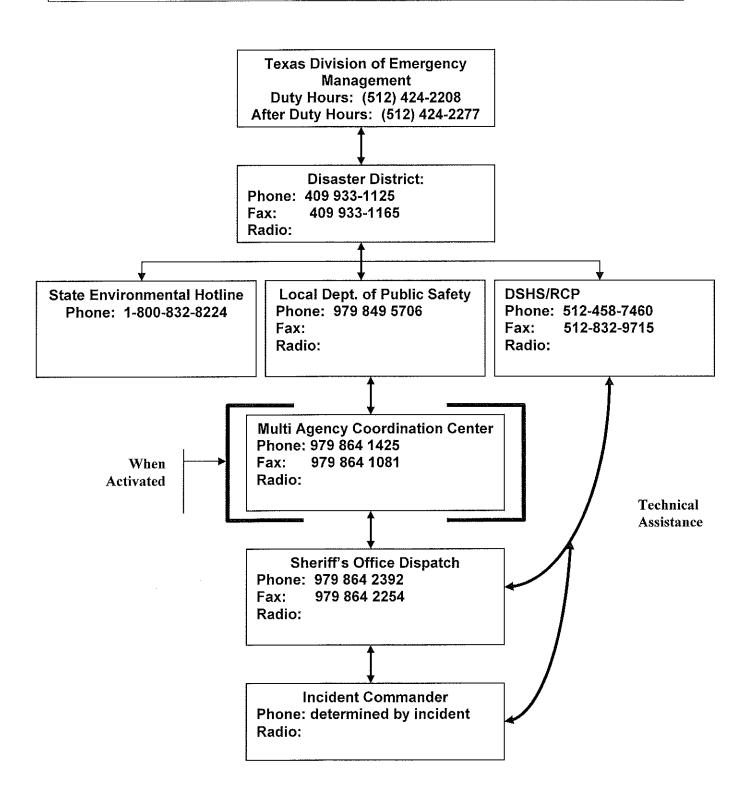
Incident Classification.

<u>Level I – Incident</u>. An incident is a situation that is limited in scope and potential effects; involves a limited area and/or limited population; evacuation or sheltering in place is typically limited to the immediate area of the incident; and warning and public instructions are conducted in the immediate area, not community-wide. This situation can normally be handled by one or two local response agencies or departments acting under an incident commander, and may require limited external assistance from other local response agencies or contractors.

<u>Level II – Emergency</u>. An emergency is a situation that is larger in scope and more severe in terms of actual or potential effects than an incident. It does or could involve a large area, significant population, or critical facilities; require implementation of large-scale evacuation or inplace sheltering and implementation of temporary shelter and mass care operations; and require community-wide warning and public instructions. You may require a sizable multi-agency response operating under an incident commander; and some external assistance from other local response agencies, contractors, and limited assistance from state and federal agencies.

<u>Level III – Disaster</u>. A disaster involves the occurrence or threat of significant casualties and/or widespread property damage that is beyond the capability of the local government to handle with its organic resources. It involves a large area, a sizable population, and/or critical resources; may require implementation of large-scale evacuation or in-place sheltering and implementation of temporary shelter and mass care operations and requires a community-wide warning and public instructions. This situation requires significant external assistance from other local response agencies, contractors, and extensive state or federal assistance.

TEXAS RADIOLOGICAL INCIDENT REPORTING SYSTEM



Brazoria County HAZARDOUS MATERIALS INCIDENT REPORT

| | INITIAL CONTACT INFORMATION |
|-----|---|
| Ch | ck one: This is an ACTUAL EMERGENCY This is a DRILL/EXERCISE |
| 3. | Date/Time of Notification: Report received by: Reported by (name & phone number or radio call sign): Company/agency and position (if applicable): ncident address/descriptive location: |
| 5. | Agencies at the scene: |
| 6. | Known damage/casualties (do not provide names over unsecured communications): |
| | CHEMICAL INFORMATION |
| 7. | Nature of emergency: (check all that apply) Leak Explosion Spill Fire Derailment Other Description: |
| 8. | Name of material(s) released/placard number(s): |
| 9. | Release of materials: |
| 40 | has ended is continuing Estimated release rate & duration: Estimated amount of material which has been released: |
| 10. | Estimated amount of material which may be released: |
| 12 | Estimated amount of material which <u>may be</u> released: ground water |
| | Plume characteristics: |
| | a. Direction (Compass direction of plume):c. Color: |
| | b. Height of plume: d. Odor: |
| 14. | Characteristics of material (color, smell, liquid, gaseous, solid, etc) |
| | Present status of material (solid, liquid, gas): |
| 10. | , pparonal party of participants |
| | ENVIRONMENTAL CONDITIONS |
| 17. | Current weather conditions at incident site: Wind From: Wind Speed (mph):Temperature (F): Humidity(%): Precipitation: Visibility: |
| 18. | Forecast: |
| 19. | Terrain conditions: |

HAZARD INFORMATION (from ERG Guidebook, MSDS, CHEMTREC, or facility)

| 20. | Potential hazards: |
|-----|---|
| 21. | Potential health effects: |
| 22. | Safety recommendations: |
| | Recommended evacuation distance: |
| | IMPACT DATA |
| 23. | Estimated areas/ populations at risk: |
| 24. | Special facilities at risk: |
| 25. | Other facilities with Hazmat in area of incident: |
| | PROTECTIVE ACTION DECISIONS |
| 26. | Tools used for formulating protective actions a. Recommendations by facility operator/responsible party b. Emergency Response Guidebook c. Material Safety Data Sheet d. Recommendations by CHEMTREC e. Results of incident modeling (CAMEO or similar software) f. Other: |
| 27. | Protective action recommendations: Evacuation Shelter-In-Place Combination No Action Other Time Actions Implemented |
| 28. | Evacuation Routes Recommended: |
| | Notification made to: National Response Center (Federal Spill Reporting) Texas Environmental Hotline (State Spill Reporting) CHEMTREC (Hazardous Materials Information) TCEQ (Most Hazmat spills, except as indicated below) RRC (Oil/gas spills - production facilities, intrastate pipelines) DSHS/RCP (Radiological incidents) (24 Hours) GLO (Petroleum spills in coastal waters or tributaries) Disaster District Chair [Location: Texas City) TDEM State Operations Center (SOC) Austin (24 Hrs) Other Information: |

RADIOLOGICAL RESPONSE TRAINING

- 2. The purpose of this appendix is to provide guidelines for training personnel to deal with radiological accidents, if needed. Brazoria County currently maintains no radiological training requirements.
 - a. The Federal Government provides training for radiological responders and radiological monitors. Courses available include:
 - 1) PER-904 Radiological Emergency Response Operations (40 hours) at the Center for Domestic Preparedness
 - 2) PER-905 Advanced Radiological Incident Operations (40 hours) at the Center for Domestic Preparedness
 - 3) IS-3 Radiological Emergency Management (10 hours) via FEMA Independent Study
 - 4) IS-301 Radiological Emergency Response (10 hours) via FEMA Independent Study